

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011797.D
 Acq On : 23 Aug 2019 14:53
 Operator : JC/SP
 Sample : K4491-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP-1

Quant Time: Aug 26 01:54:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

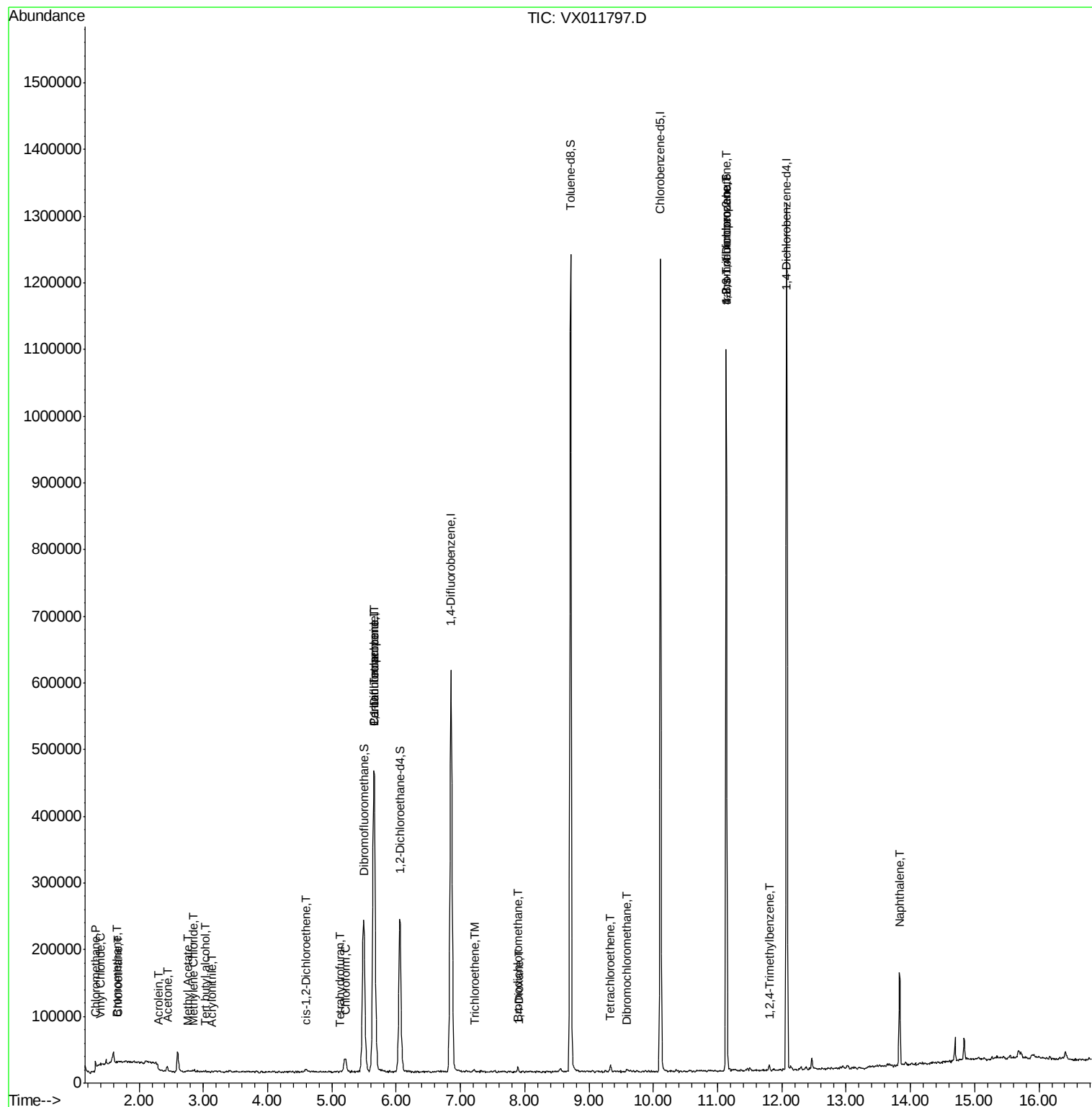
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	493525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	660287	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	587493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	295172	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	225311	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	
35) Dibromofluoromethane	5.49	113	190795	44.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.38%	
50) Toluene-d8	8.71	98	750633	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
62) 4-Bromofluorobenzene	11.13	95	266839	45.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.66%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	9258	2.292	ug/l	99
4) Vinyl Chloride	1.40	62	1624	0.402	ug/l #	87
5) Bromomethane	1.65	94	493	0.222	ug/l #	76
6) Chloroethane	1.68	64	557	0.236	ug/l #	80
11) Tert butyl alcohol	3.04	59	1671	1.706	ug/l #	62
13) Acrolein	2.31	56	138	0.364	ug/l #	16
15) Acrylonitrile	3.13	53	517	0.231	ug/l #	65
16) Acetone	2.43	43	8472	3.928	ug/l	97
18) Methyl Acetate	2.77	43	1811	0.309	ug/l	99
20) Methylene Chloride	2.85	84	2135	0.484	ug/l #	87
27) cis-1,2-Dichloroethene	4.59	96	3125	0.651	ug/l	62
29) Tetrahydrofuran	5.12	42	452	0.228	ug/l #	83
30) Chloroform	5.21	83	25755	3.420	ug/l	91
36) 1,1-Dichloropropene	5.65	75	28543	5.513	ug/l #	51
38) Carbon Tetrachloride	5.65	117	42760	7.287	ug/l #	17
44) Trichloroethene	7.21	130	1539	0.312	ug/l	90
47) Bromodichloromethane	7.89	83	4962	0.929	ug/l #	83
49) 1,4-Dioxane	7.91	88	346	2.829	ug/l	95
60) Dibromochloromethane	9.59	129	1497	0.321	ug/l	85
64) Tetrachloroethene	9.34	164	2614	0.558	ug/l #	76
76) 1,2,3-Trichloropropane	11.13	75	121832	23.523	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	121832	70.940	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	4686	0.313	ug/l	85
95) Naphthalene	13.83	128	93228	5.052	ug/l	100

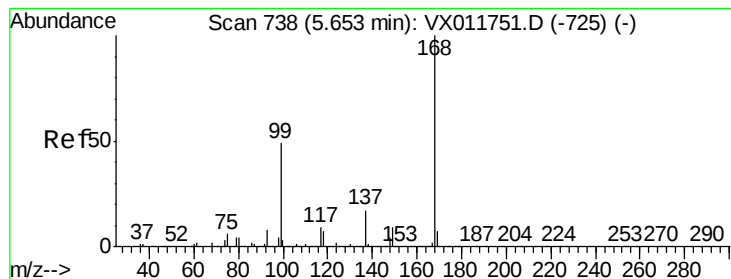
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampled :

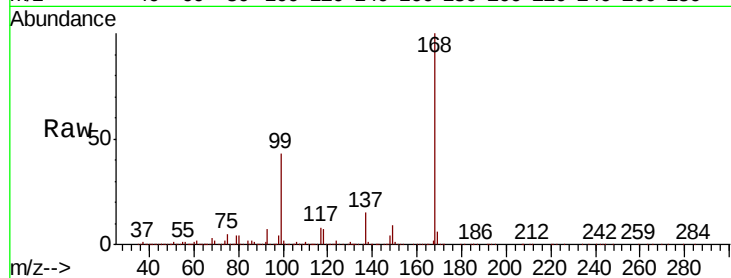
WP-1

Tgt Ion:168 Resp: 493525

Ion Ratio Lower Upper

168 100

99 43.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

150000

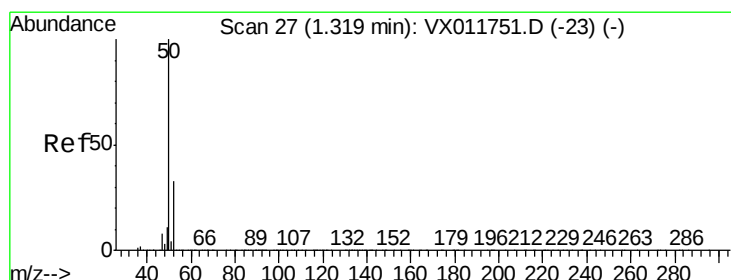
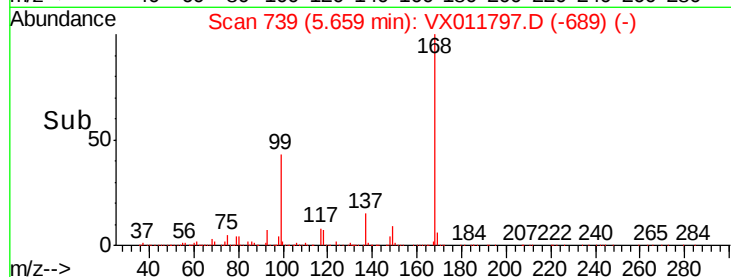
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 2.292 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011797.D

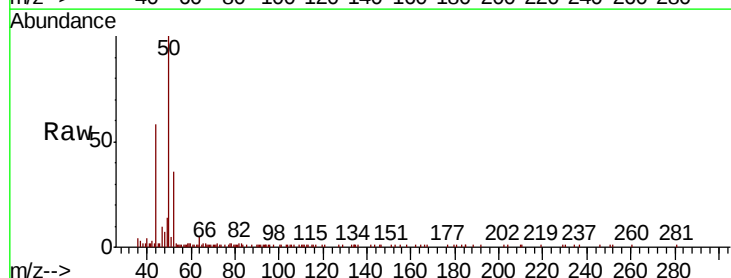
Acq: 23 Aug 2019 14:53

Tgt Ion: 50 Resp: 9258

Ion Ratio Lower Upper

50 100

52 33.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

10000

8000

6000

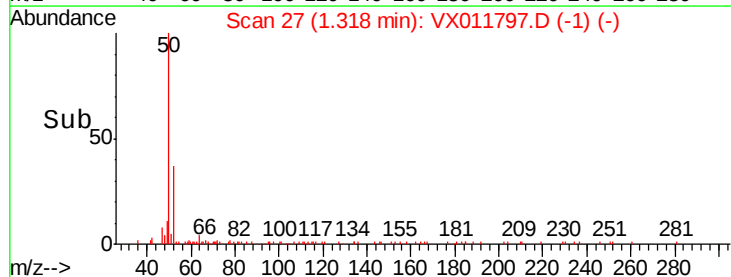
4000

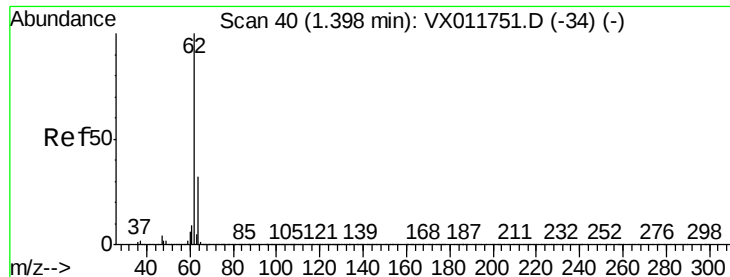
2000

0

Time-->

1.25 1.30 1.35





#4

Vinyl Chloride

Concen: 0.402 ug/l

RT: 1.40 min Scan# 40

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampled :

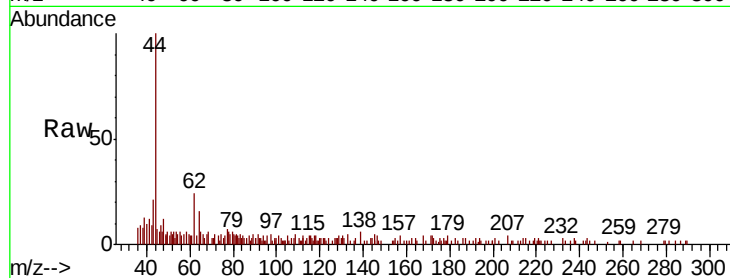
WP-1

Tgt Ion: 62 Resp: 1624

Ion Ratio Lower Upper

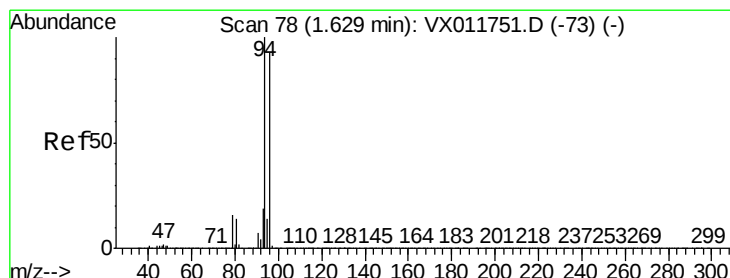
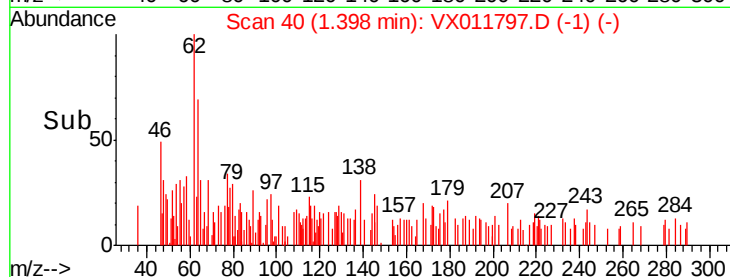
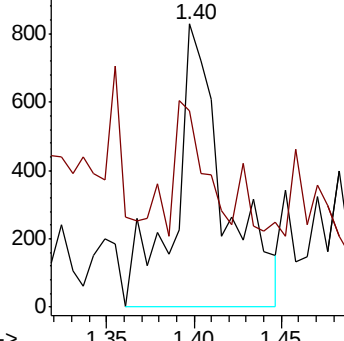
62 100

64 39.3 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011797.D

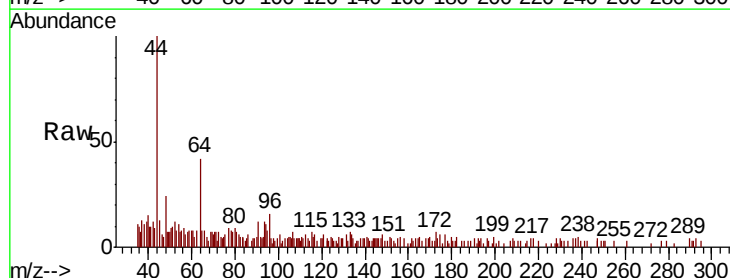
Acq: 23 Aug 2019 14:53

Tgt Ion: 94 Resp: 493

Ion Ratio Lower Upper

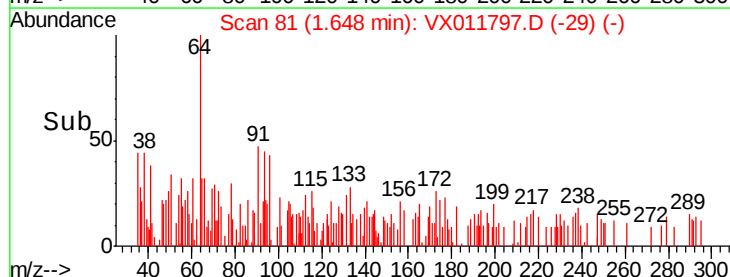
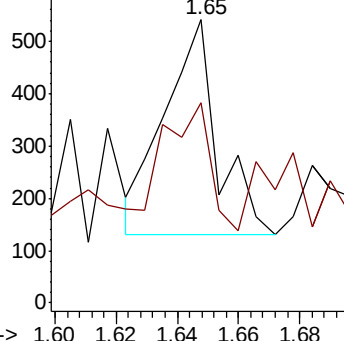
94 100

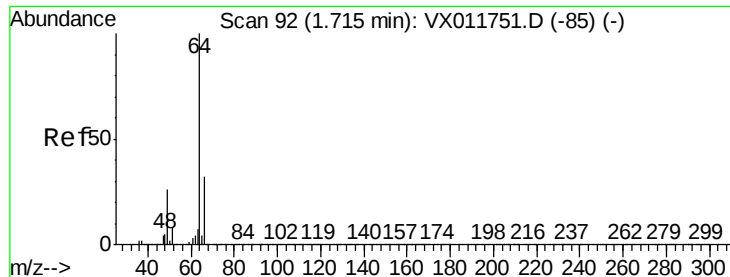
96 70.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.236 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

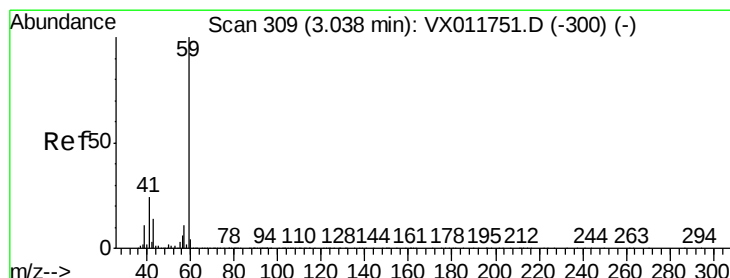
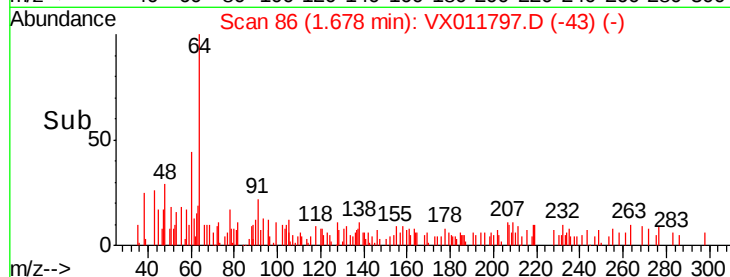
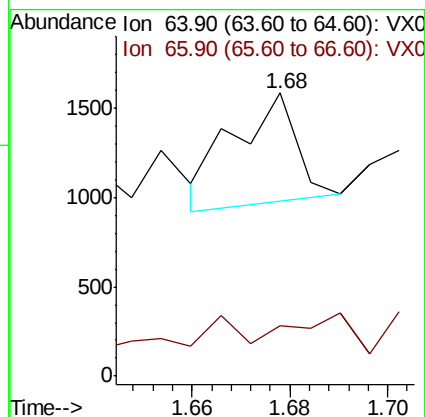
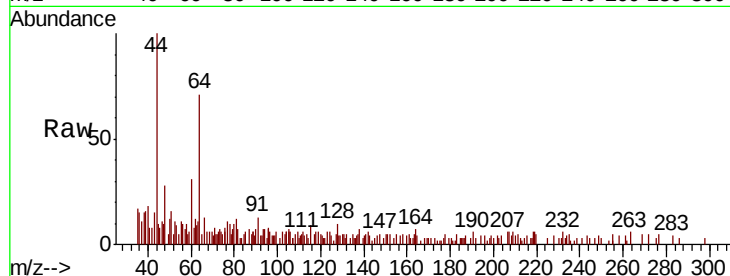
WP-1

Tgt Ion: 64 Resp: 557

Ion Ratio Lower Upper

64 100

66 19.9 24.9 37.3#



#11

Tert butyl alcohol

Concen: 1.706 ug/l

RT: 3.04 min Scan# 310

Delta R.T. 0.01 min

Lab File: VX011797.D

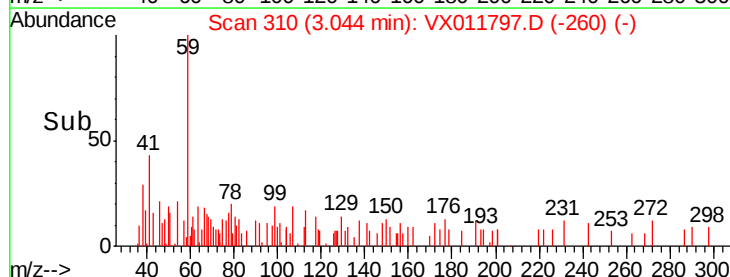
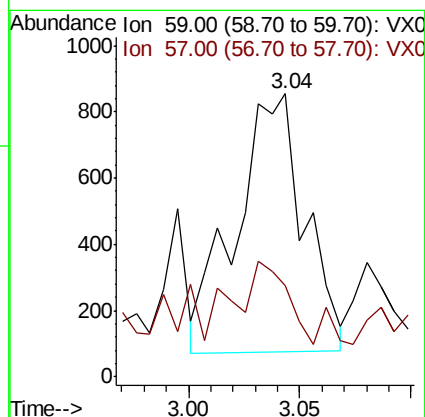
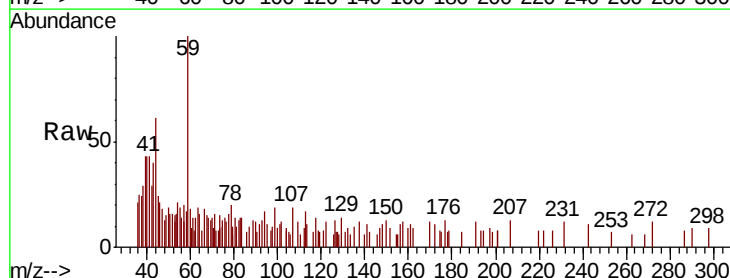
Acq: 23 Aug 2019 14:53

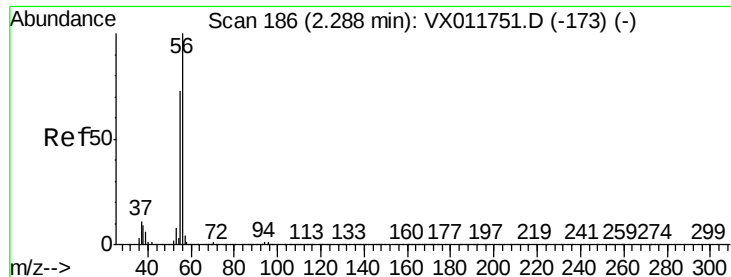
Tgt Ion: 59 Resp: 1671

Ion Ratio Lower Upper

59 100

57 24.7 8.4 12.6#





#13

Acrolein

Concen: 0.364 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampled :

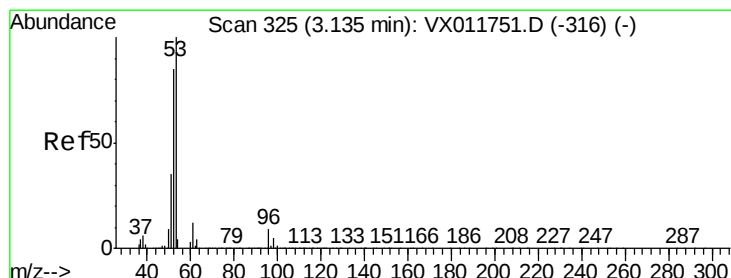
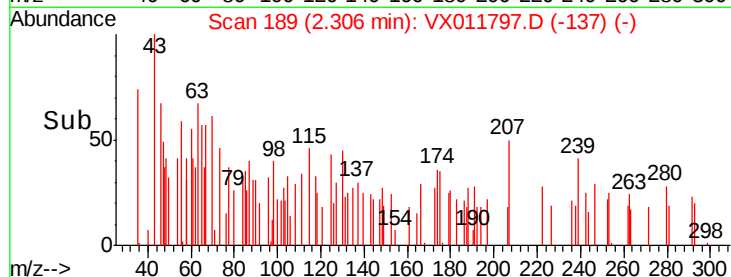
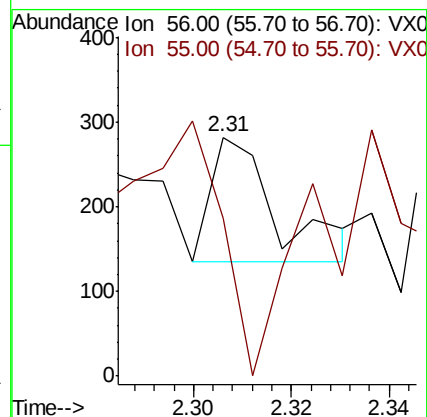
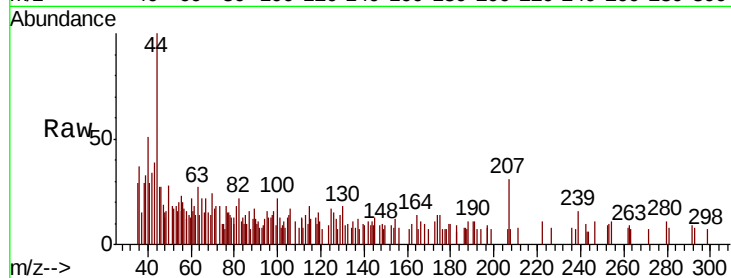
WP-1

Tgt Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



#15

Acrylonitrile

Concen: 0.231 ug/l

RT: 3.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

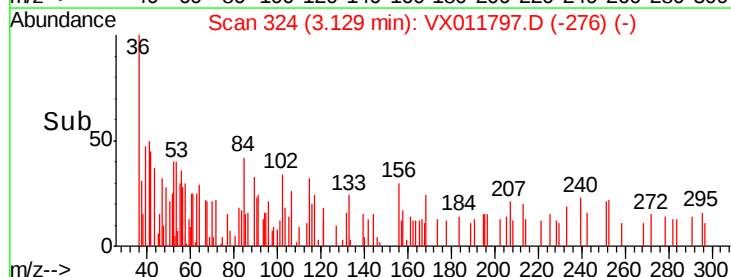
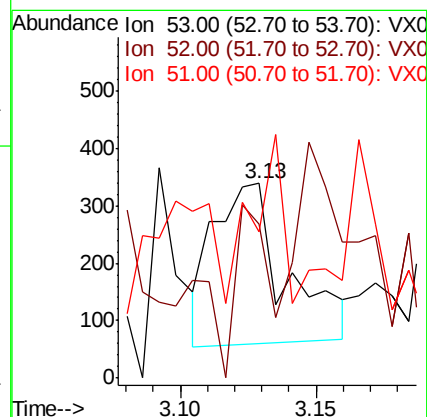
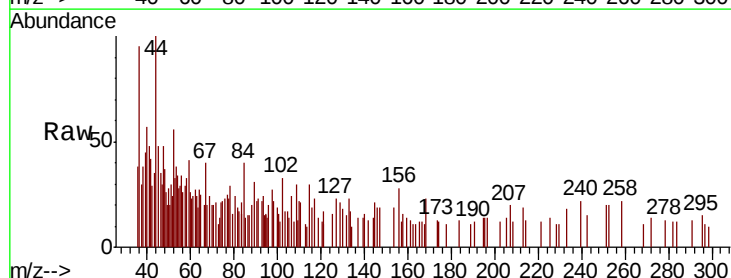
Tgt Ion: 53 Resp: 517

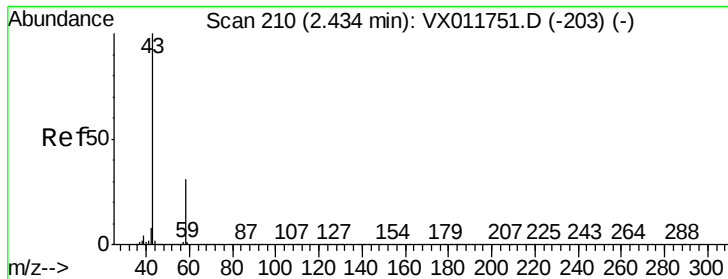
Ion Ratio Lower Upper

53 100

52 47.8 65.7 98.5#

51 52.4 28.6 43.0#

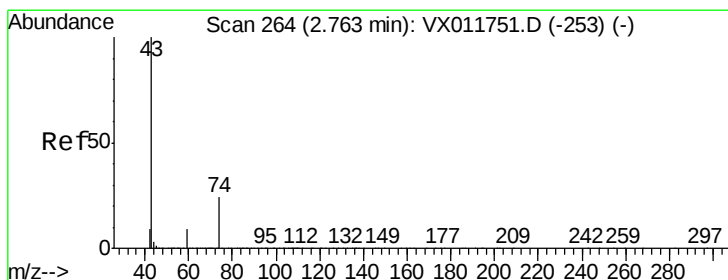
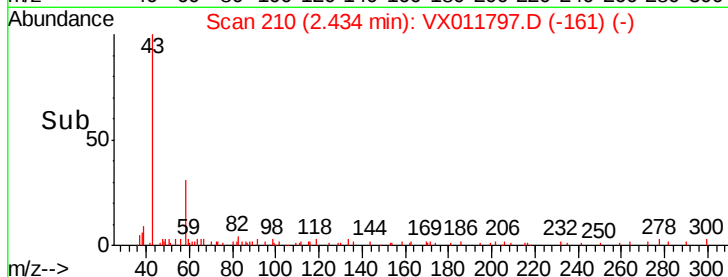
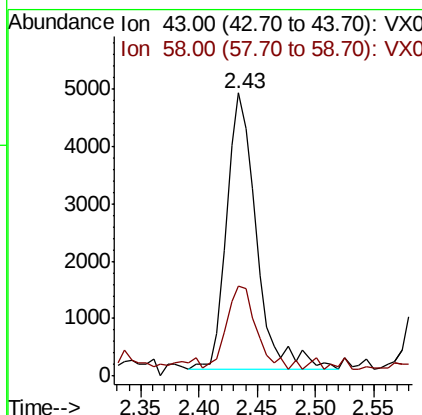
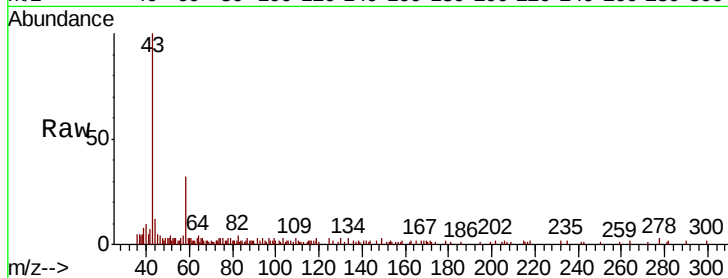




#16
Acetone
Concen: 3.928 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

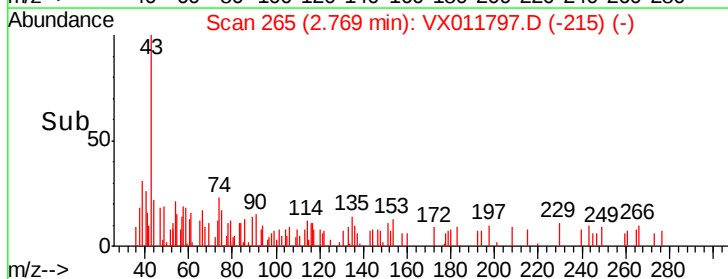
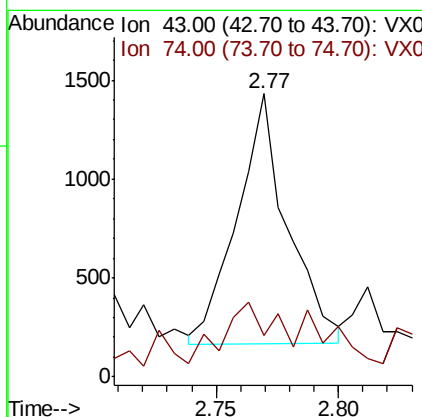
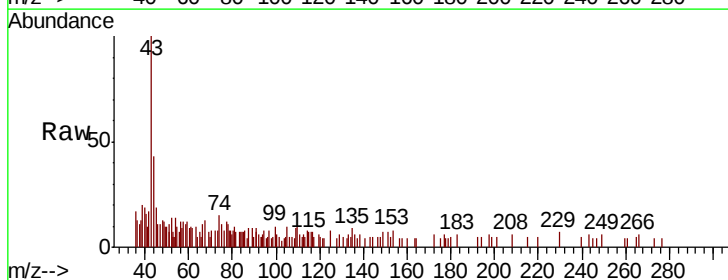
Instrument :
MSVOA_X
ClientSampled :
WP-1

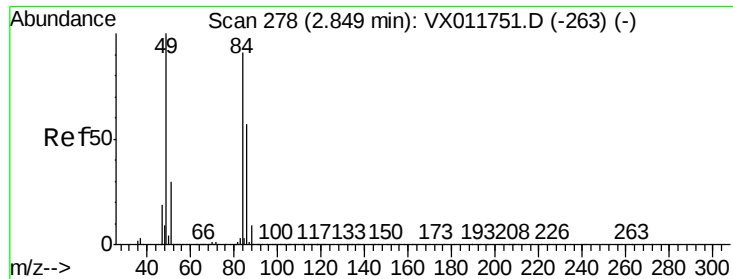
Tgt Ion: 43 Resp: 8472
Ion Ratio Lower Upper
43 100
58 29.1 24.4 36.6



#18
Methyl Acetate
Concen: 0.309 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

Tgt Ion: 43 Resp: 1811
Ion Ratio Lower Upper
43 100
74 25.1 19.5 29.3

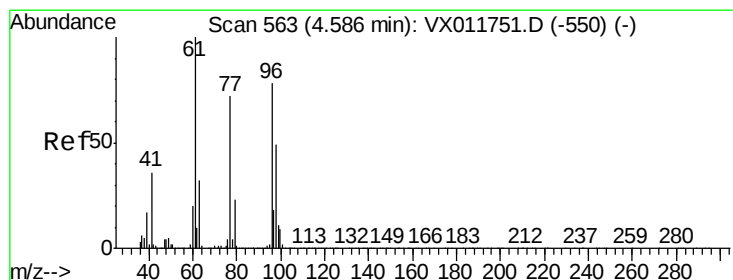
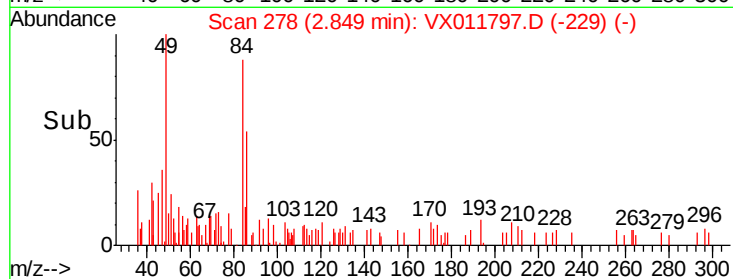
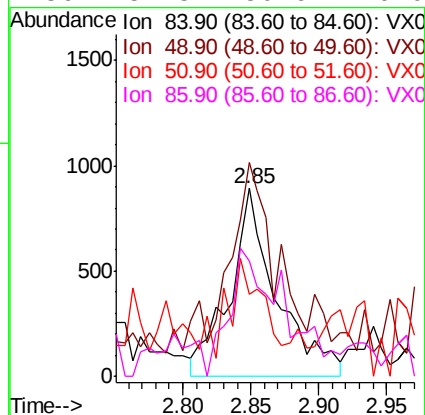
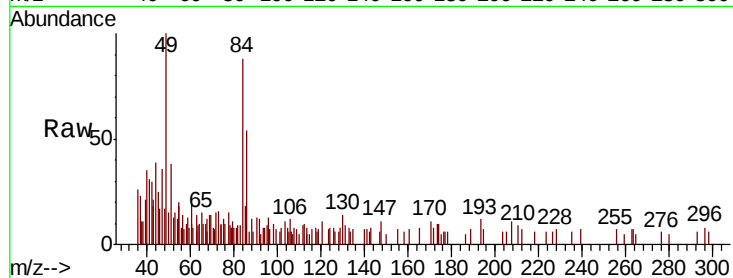




#20
Methylene Chloride
Concen: 0.484 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

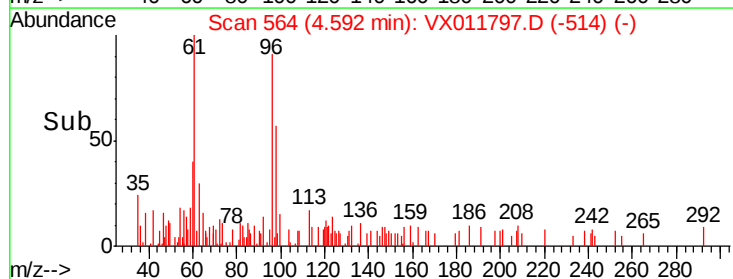
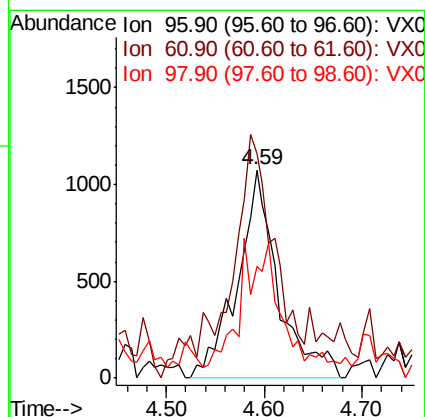
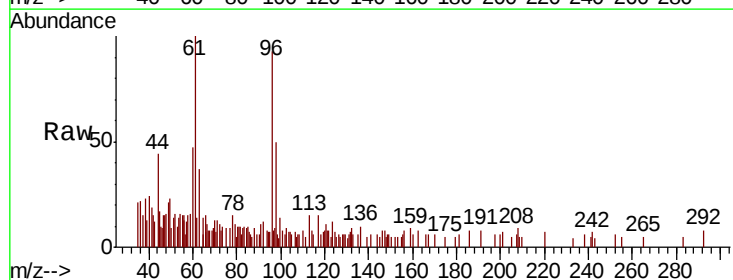
Instrument :
MSVOA_X
ClientSampled :
WP-1

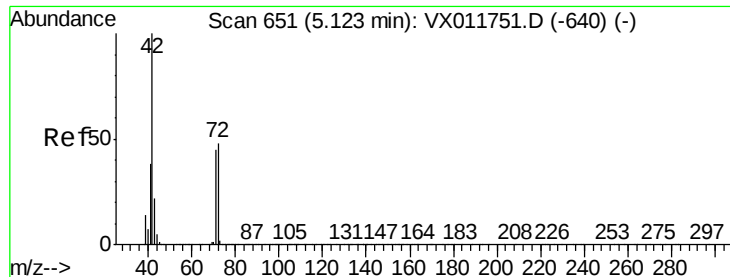
Tgt Ion:	84	Resp:	2135
Ion	Ratio	Lower	Upper
84	100		
49	98.4	88.3	132.5
51	22.0	26.2	39.2#
86	54.5	50.6	76.0



#27
cis-1,2-Dichloroethene
Concen: 0.651 ug/l
RT: 4.59 min Scan# 564
Delta R.T. 0.01 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

Tgt Ion:	96	Resp:	3125
Ion	Ratio	Lower	Upper
96	100		
61	78.5	0.0	275.8
98	53.8	0.0	128.2





#29

Tetrahydrofuran

Concen: 0.228 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

WP-1

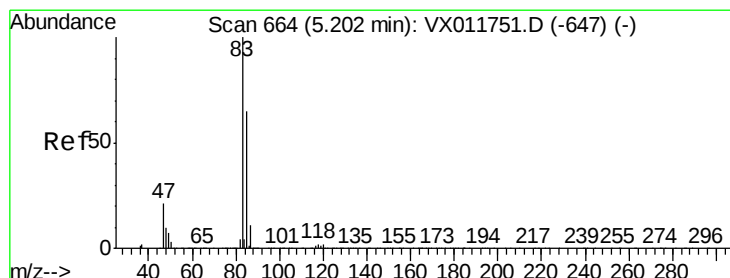
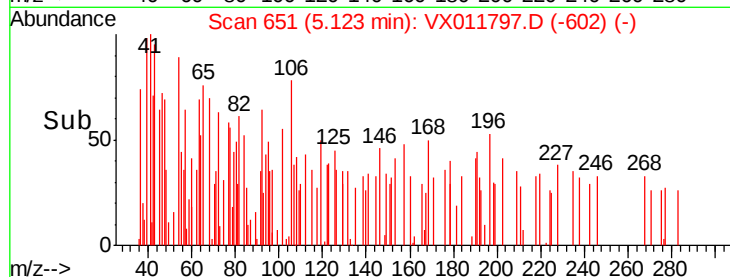
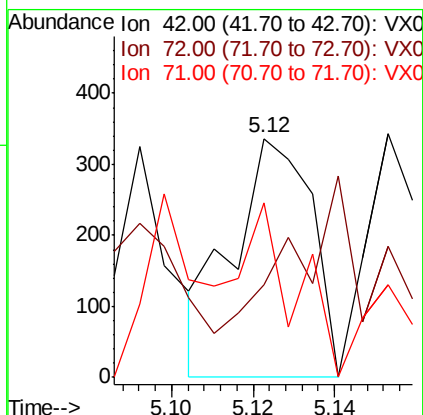
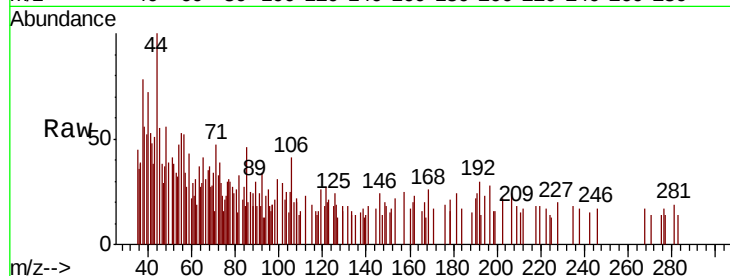
Tgt Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 60.6 37.6 56.4#

71 51.1 34.6 51.8



#30

Chloroform

Concen: 3.420 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.01 min

Lab File: VX011797.D

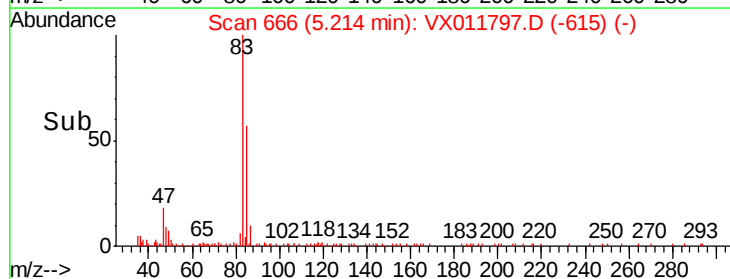
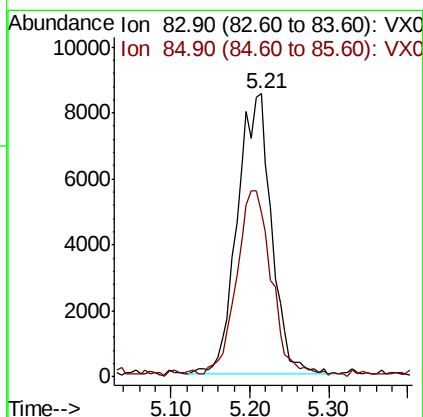
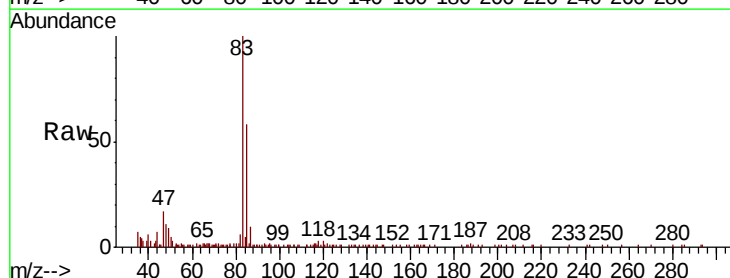
Acq: 23 Aug 2019 14:53

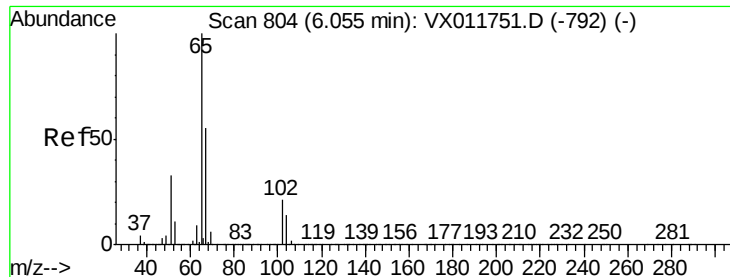
Tgt Ion: 83 Resp: 25755

Ion Ratio Lower Upper

83 100

85 57.5 51.8 77.8





#33

1,2-Dichloroethane-d4

Concen: 45.446 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

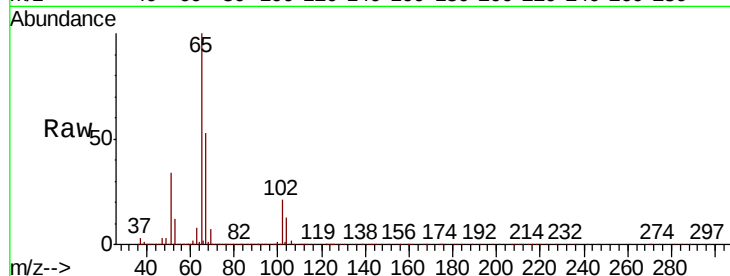
WP-1

Tgt Ion: 65 Resp: 225311

Ion Ratio Lower Upper

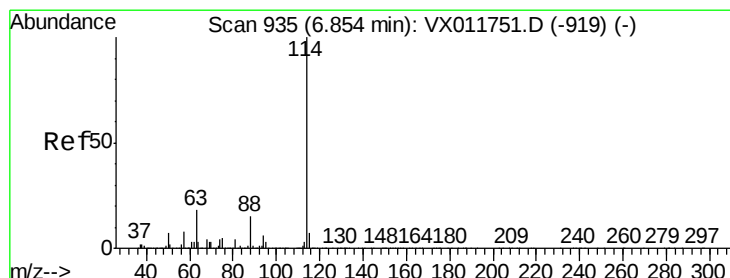
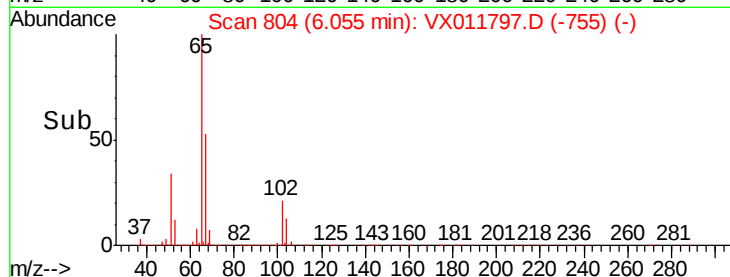
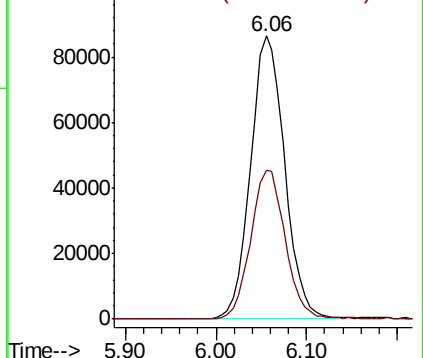
65 100

67 52.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

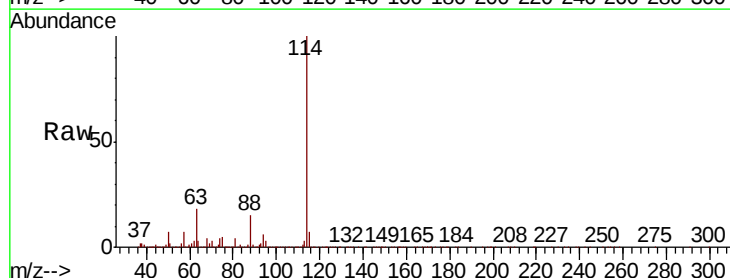
Tgt Ion: 114 Resp: 660287

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.8

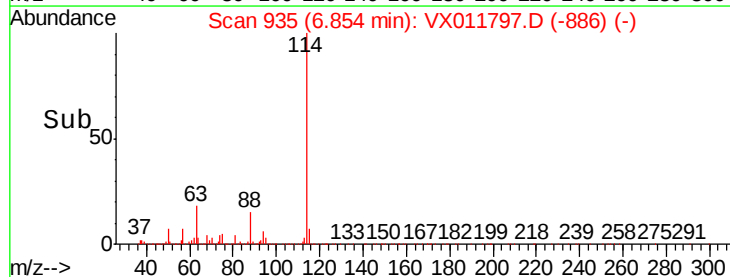
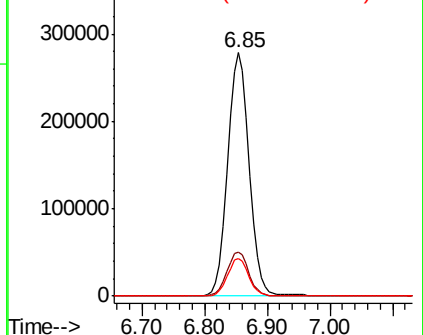
88 15.3 0.0 30.2

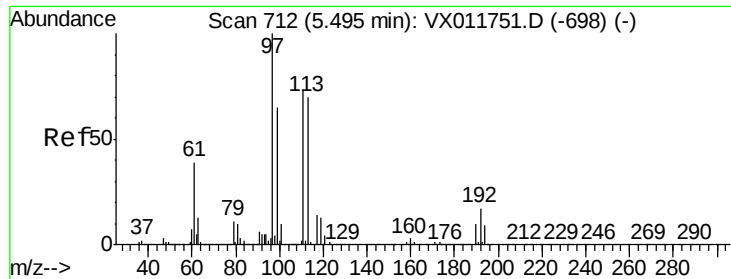


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

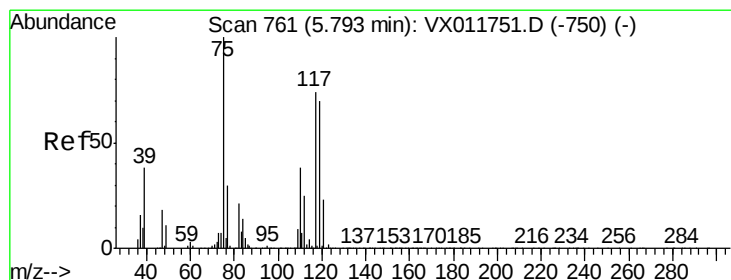
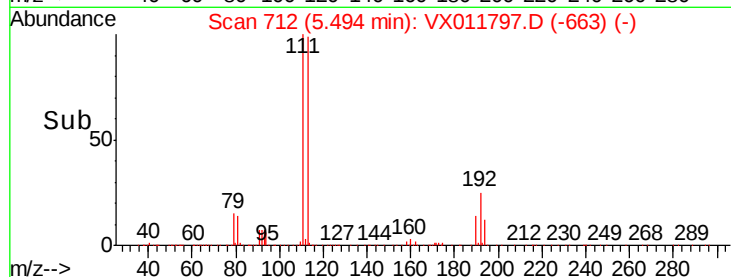
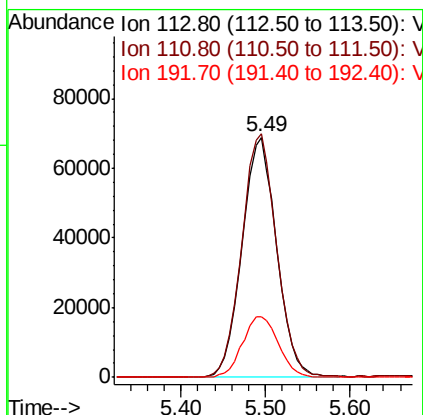
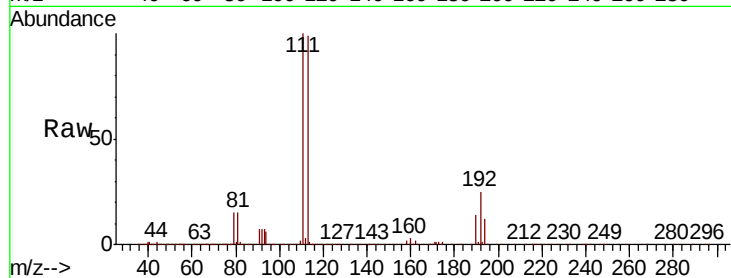




#35
 Dibromofluoromethane
 Concen: 44.686 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

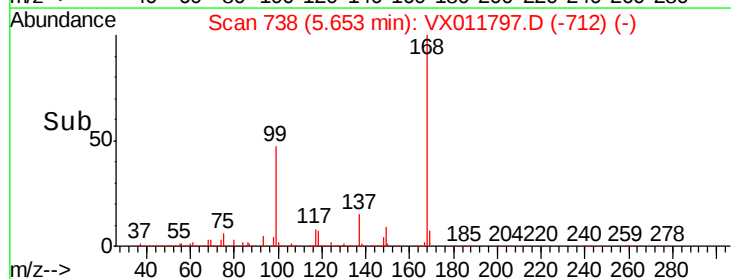
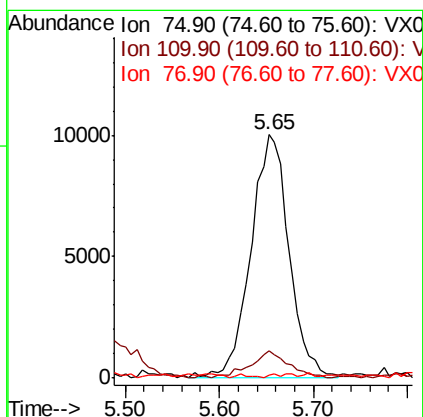
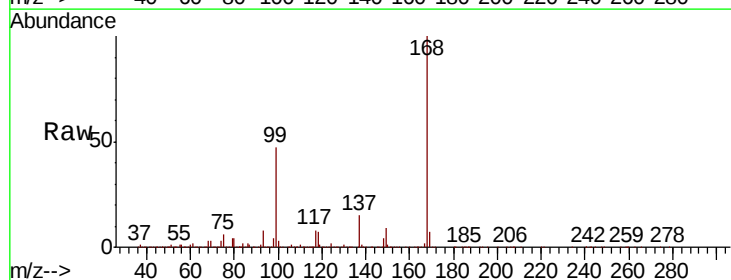
Instrument :
 MSVOA_X
 ClientSampleId :
 WP-1

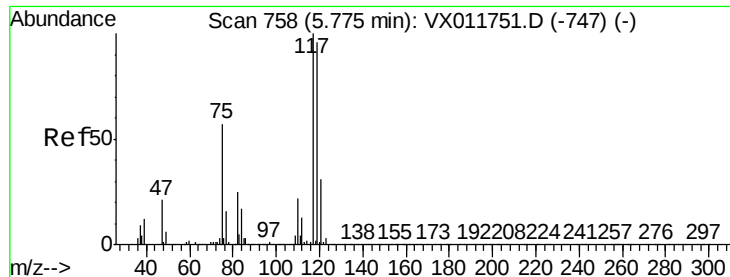
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.4
192	26.6	19.9	29.9



#36
 1,1-Dichloropropene
 Concen: 5.513 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	19.0	57.0#
77	0.5	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 7.287 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

WP-1

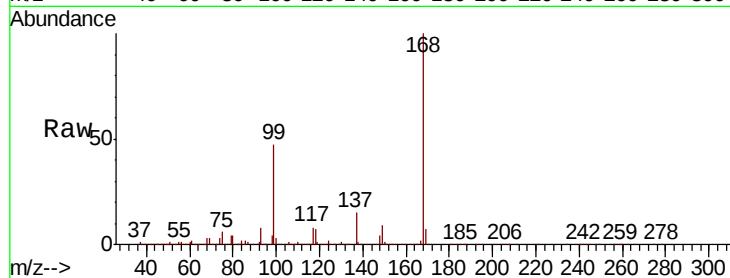
Tgt Ion:117 Resp: 42760

Ion Ratio Lower Upper

117 100

119 5.7 76.6 114.8#

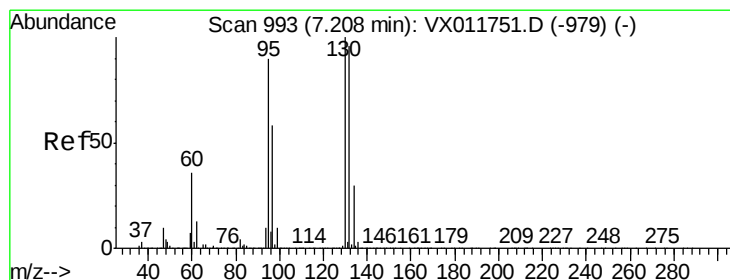
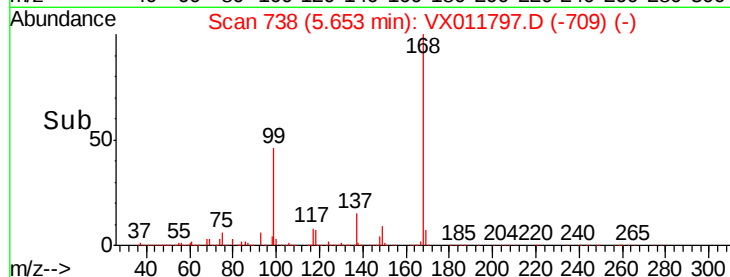
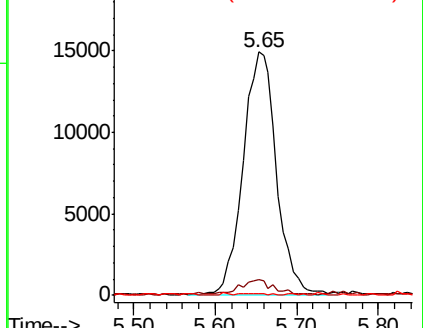
121 0.7 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.312 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011797.D

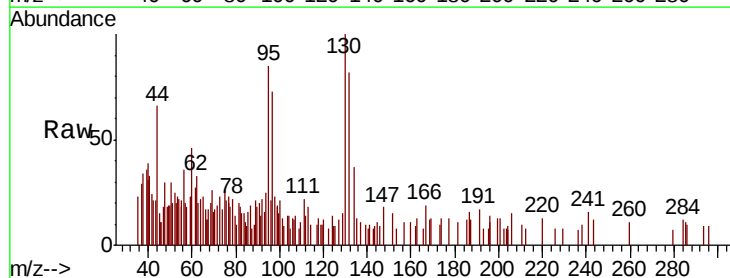
Acq: 23 Aug 2019 14:53

Tgt Ion:130 Resp: 1539

Ion Ratio Lower Upper

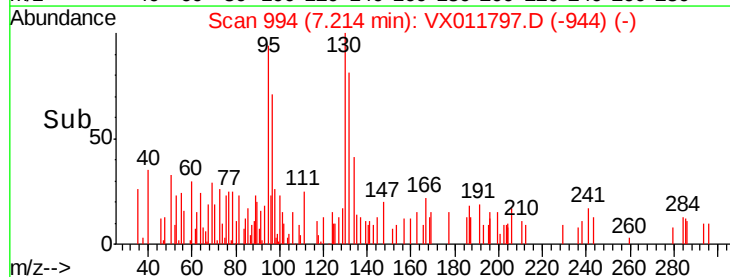
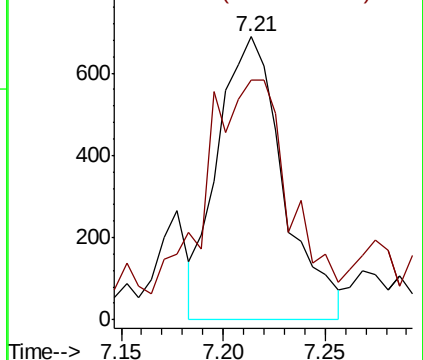
130 100

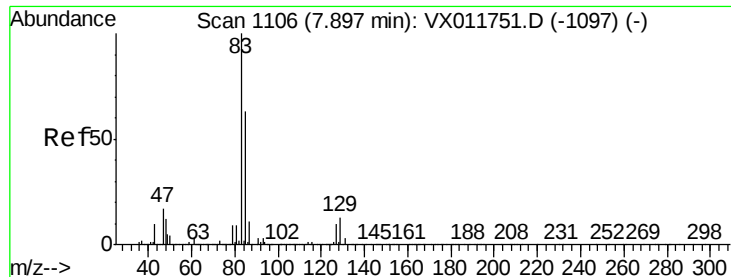
95 80.0 0.0 179.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.929 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. -0.01 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

WP-1

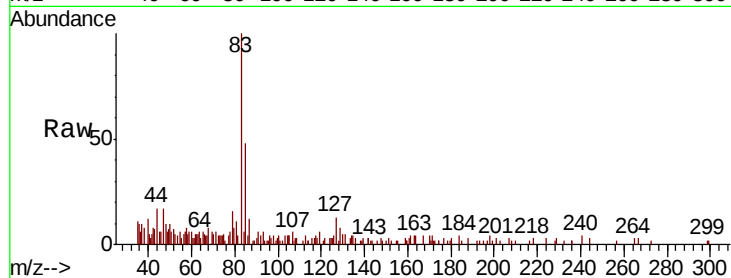
Tgt Ion: 83 Resp: 4962

Ion Ratio Lower Upper

83 100

85 48.0 50.6 76.0#

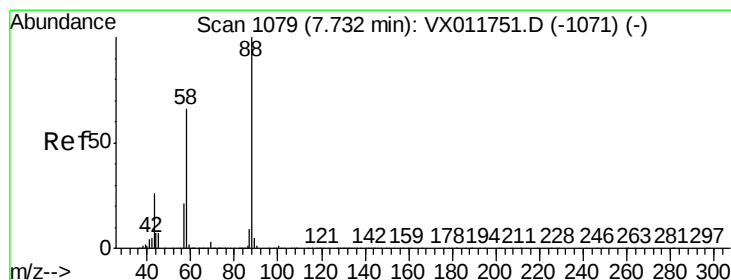
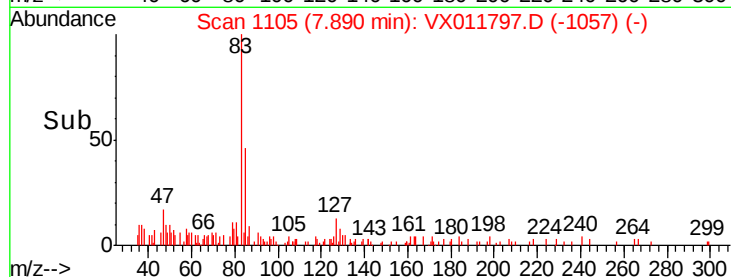
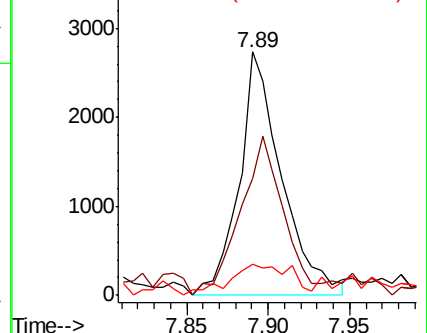
127 10.8 8.4 12.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: 2.829 ug/l

RT: 7.91 min Scan# 1108

Delta R.T. 0.18 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

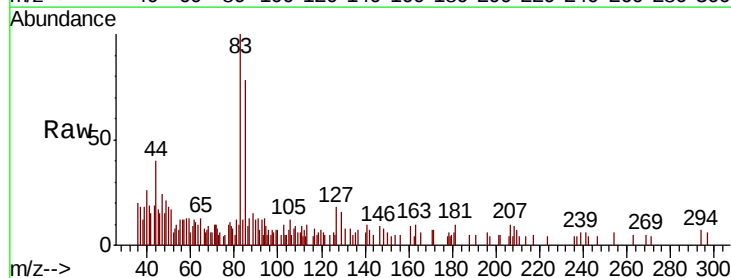
Tgt Ion: 88 Resp: 346

Ion Ratio Lower Upper

88 100

43 34.7 24.6 37.0

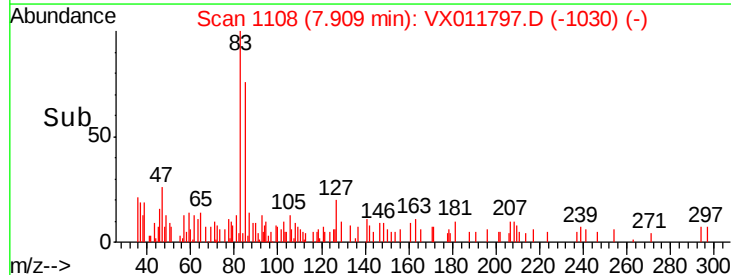
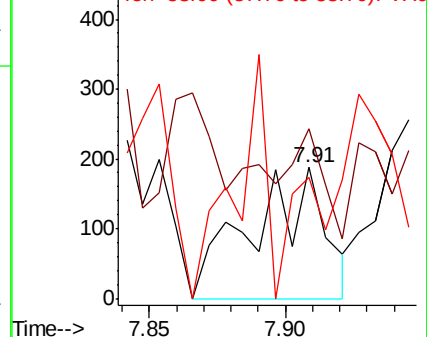
58 61.6 51.4 77.2

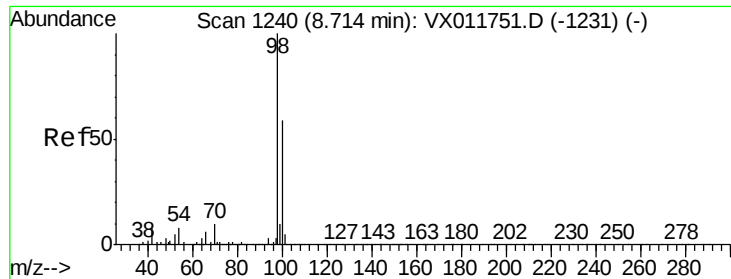


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.403 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

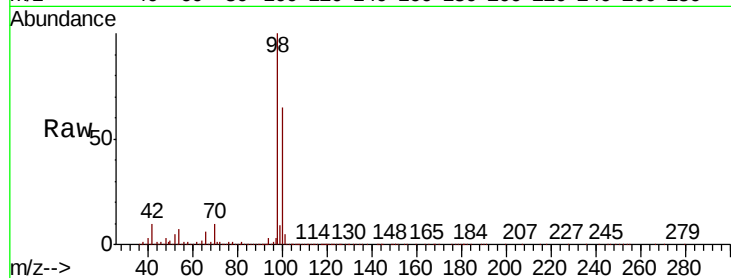
WP-1

Tgt Ion: 98 Resp: 750633

Ion Ratio Lower Upper

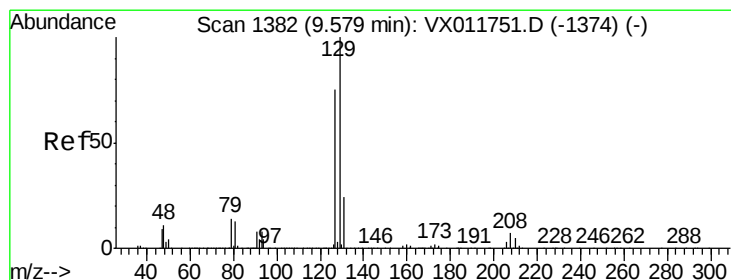
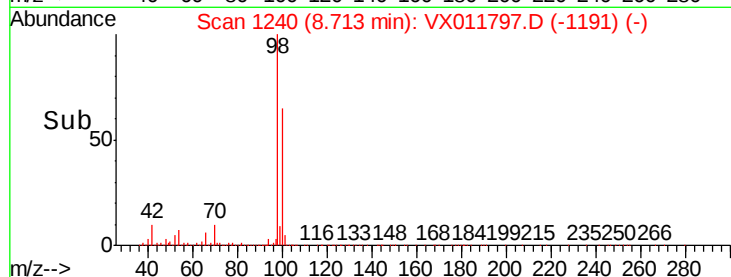
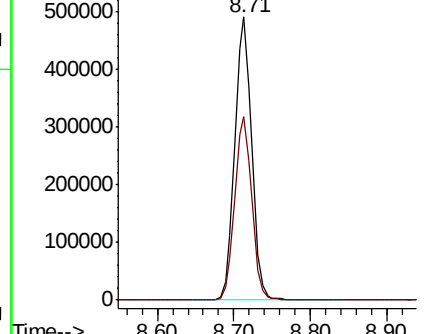
98 100

100 65.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 0.321 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX011797.D

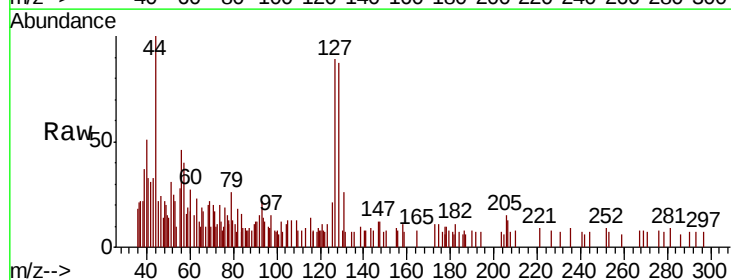
Acq: 23 Aug 2019 14:53

Tgt Ion: 129 Resp: 1497

Ion Ratio Lower Upper

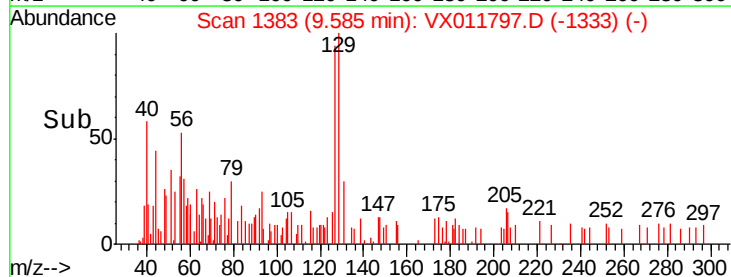
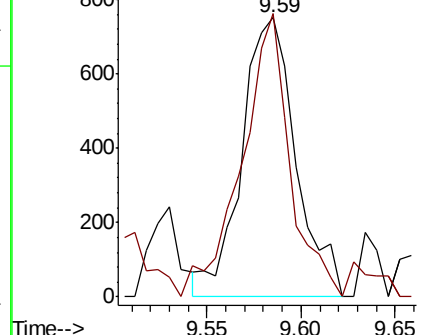
129 100

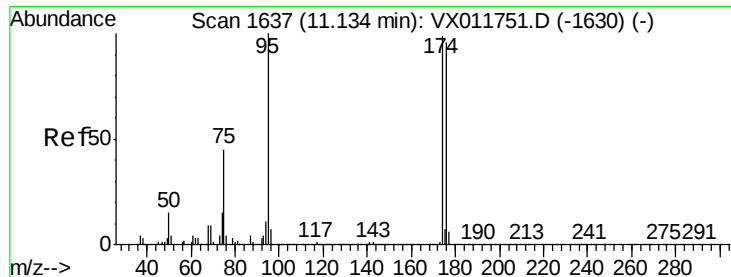
127 89.7 38.3 114.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.331 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

WP-1

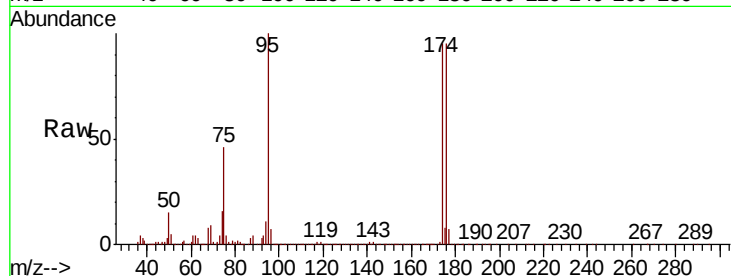
Tgt Ion: 95 Resp: 266839

Ion Ratio Lower Upper

95 100

174 99.0 0.0 197.4

176 98.1 0.0 194.4

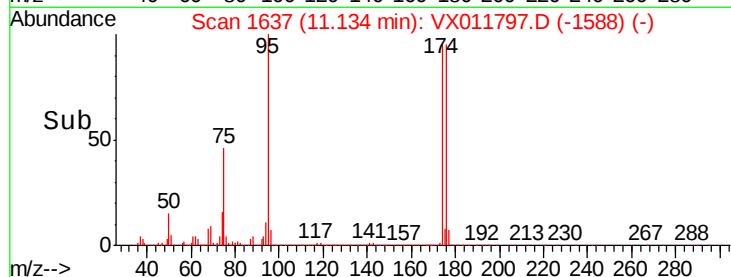


Abundance Ion 94.90 (94.60 to 95.60): VX011751.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX011751.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX011751.D (-1630) (-)

Time--> 11.00 11.10 11.20

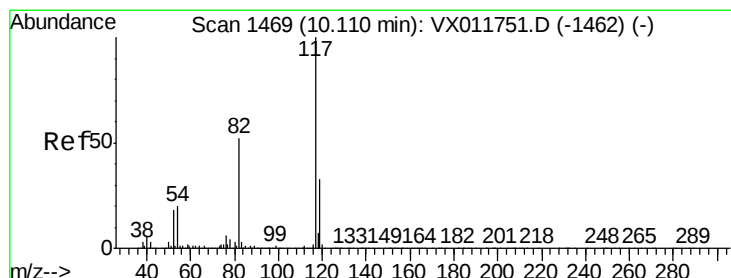


Abundance Ion 94.90 (94.60 to 95.60): VX011797.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011797.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011797.D (-1588) (-)

Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011797.D

Acq: 23 Aug 2019 14:53

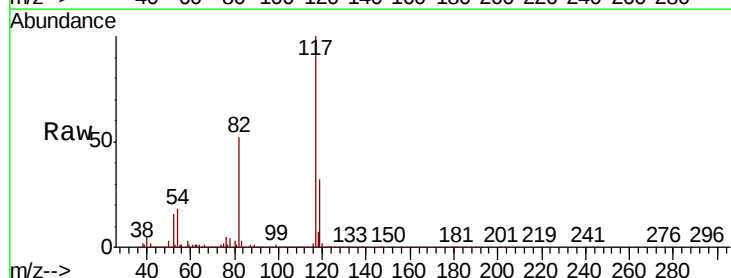
Tgt Ion: 117 Resp: 587493

Ion Ratio Lower Upper

117 100

82 51.5 41.7 62.5

119 32.3 26.2 39.2

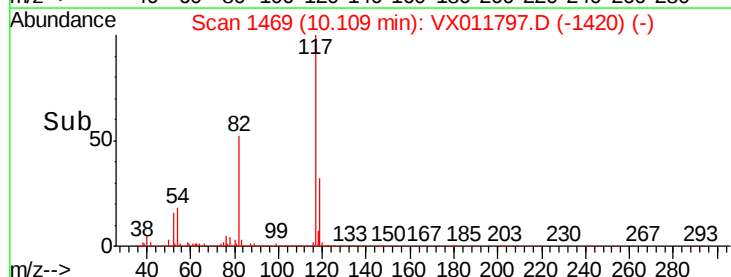


Abundance Ion 116.90 (116.60 to 117.60): VX011751.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011751.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011751.D (-1462) (-)

Time--> 10.00 10.10 10.20

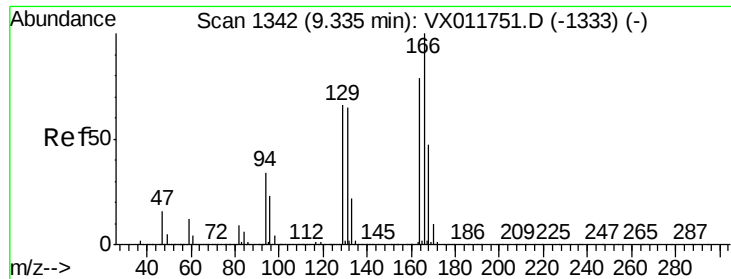


Abundance Ion 116.90 (116.60 to 117.60): VX011797.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011797.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011797.D (-1420) (-)

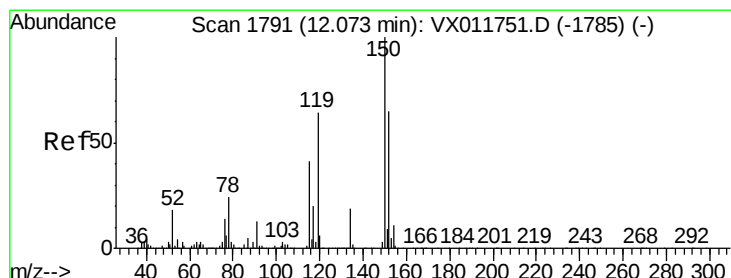
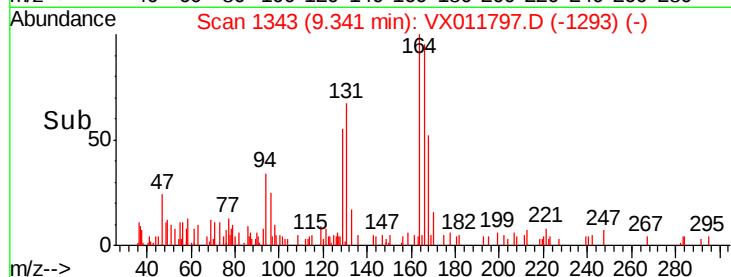
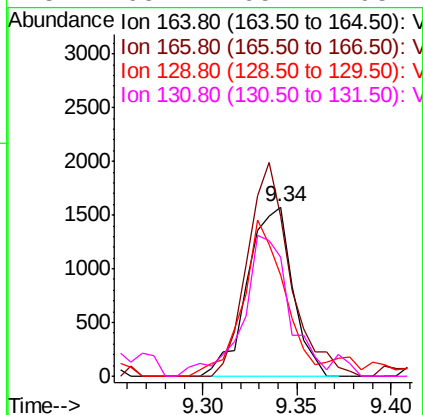
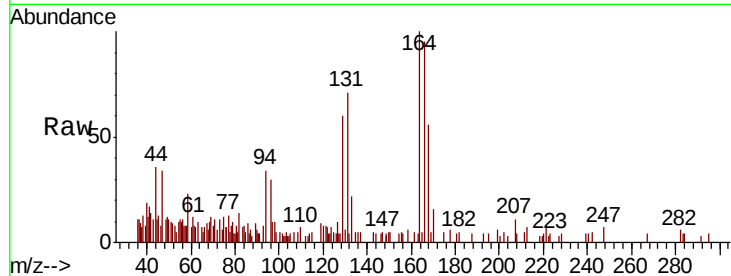
Time--> 10.00 10.10 10.20



#64
Tetrachloroethene
Concen: 0.558 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

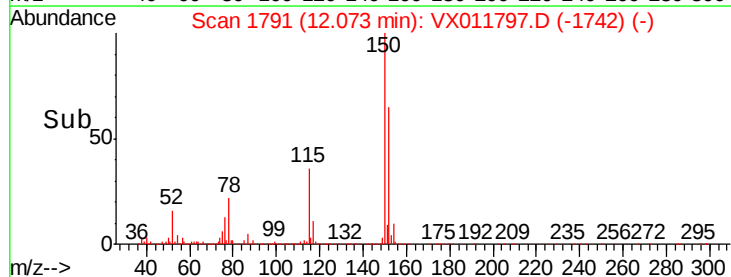
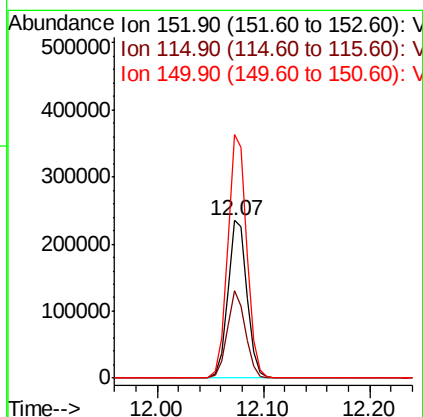
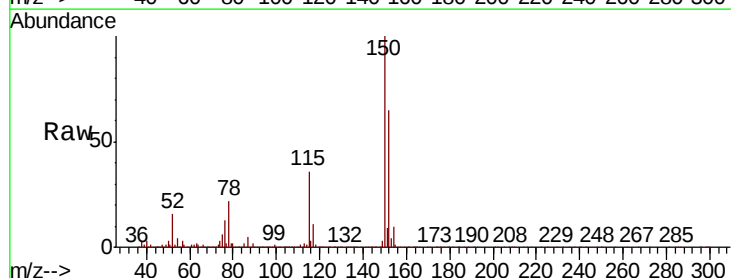
Instrument :
MSVOA_X
ClientSampled :
WP-1

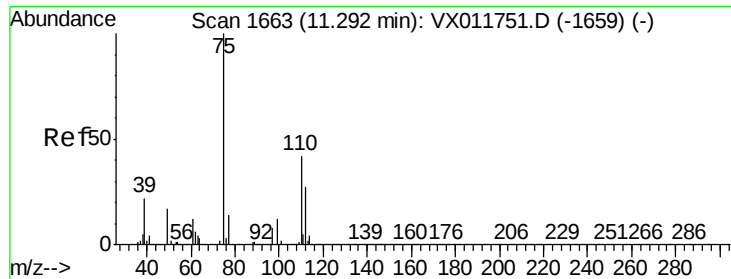
Tgt Ion	Ratio	Lower	Upper
164	100		
166	94.9	100.7	151.1#
129	59.9	66.8	100.2#
131	65.4	65.4	98.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011797.D
Acq: 23 Aug 2019 14:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.8	37.3	111.8
150	154.2	0.0	343.0

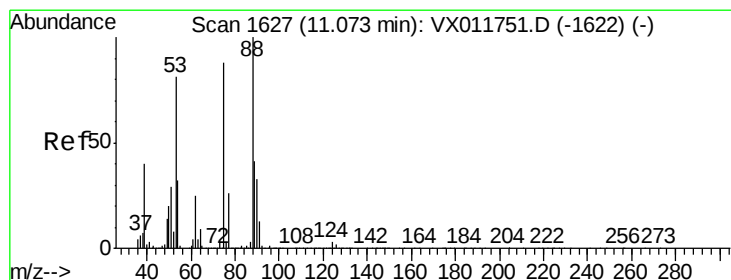
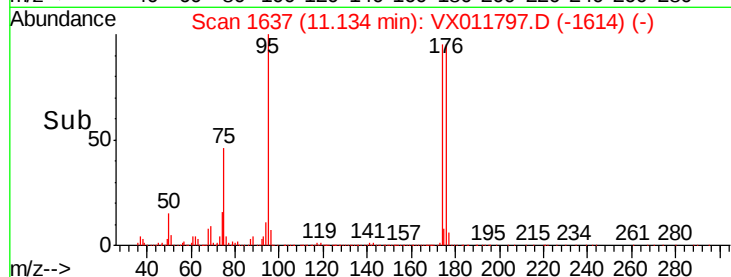
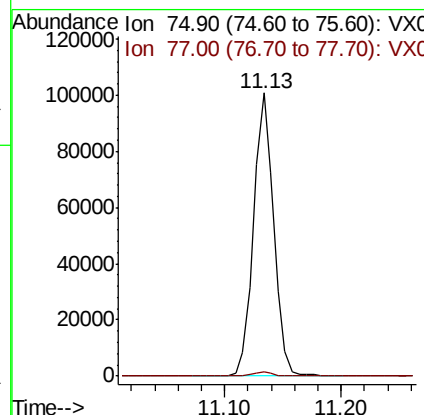
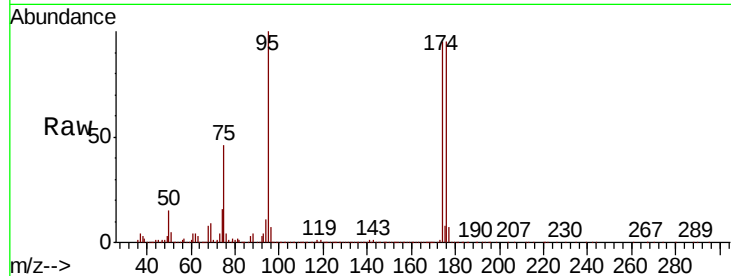




#76
 1,2,3-Trichloropropane
 Concen: 23.523 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

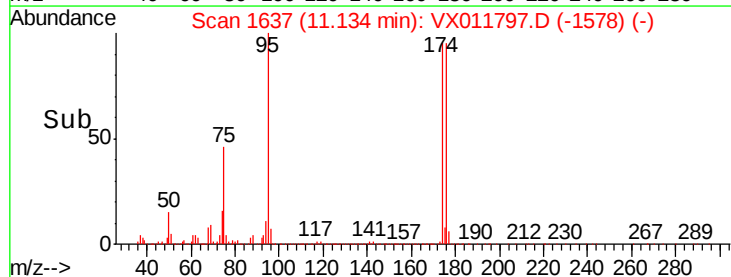
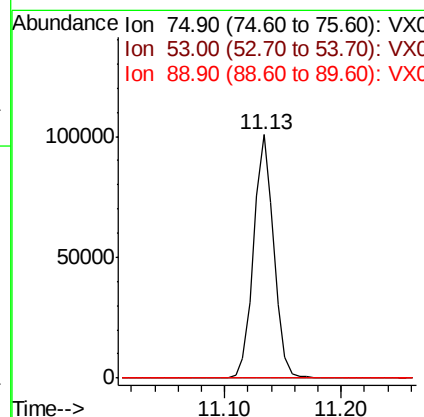
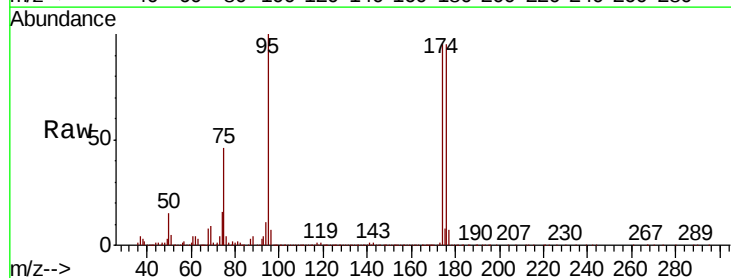
Instrument :
 MSVOA_X
 ClientSampleId :
 WP-1

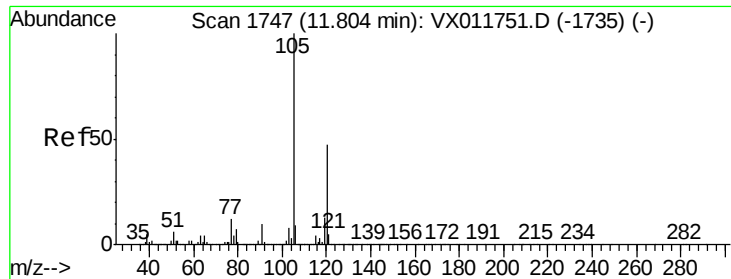
Tgt Ion: 75 Resp: 121832
 Ion Ratio Lower Upper
 75 100
 77 1.8 21.1 63.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.940 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

Tgt Ion: 75 Resp: 121832
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.1 115.7#
 89 0.1 38.5 57.7#

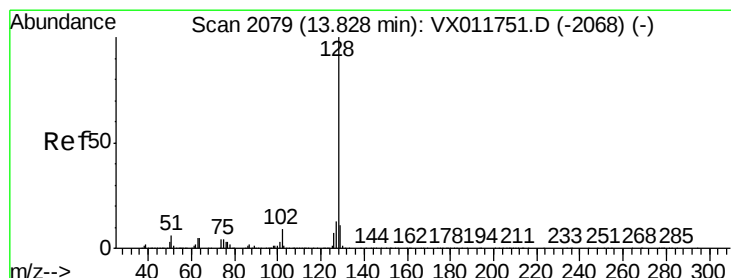
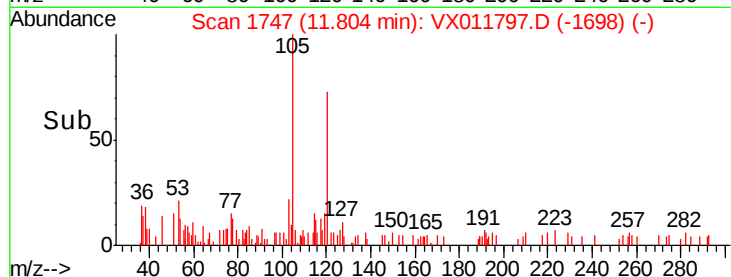
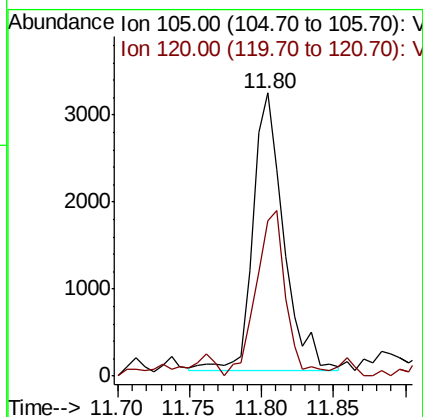
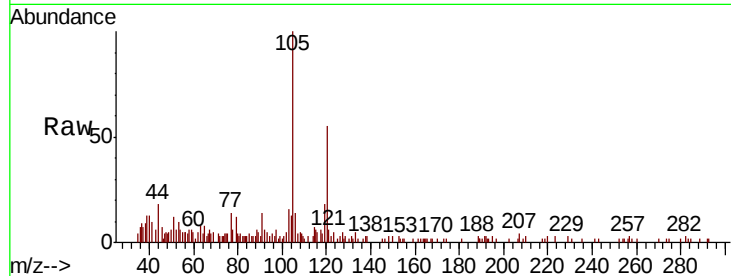




#84
 1,2,4-Trimethylbenzene
 Concen: 0.313 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

Instrument :
 MSVOA_X
 ClientSampleId :
 WP-1

Tgt Ion:105 Resp: 4686
 Ion Ratio Lower Upper
 105 100
 120 57.5 23.7 71.1



#95
 Naphthalene
 Concen: 5.052 ug/l
 RT: 13.83 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VX011797.D
 Acq: 23 Aug 2019 14:53

Tgt Ion:128 Resp: 93228
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 10.9 8.7 13.1

